

8th EuroCMR Meeting - Florence 2010

Thursday, May 27th, 2010

15.00 - 19.00 Satellite Symposium on Thalassemia

**Chair: Massimo Lombardi; (Pisa, Italy)
Marcello Capra; (Palermo, Italy)**

- 15:00-15:05 Introduction to the symposium
Massimo Lombardi; (Pisa, Italy)
Marcello Capra; (Palermo, Italy)
- 15:05-15:20 What to know about Thalassaemic Syndromes to do CMR
Maria Domenica Cappellini (Milan, Italy)
- 15:20-15:35 The heart in Thalassemia major and in Thalassemia intermedia: what to know from the cardiologist to do CMR
Mark Westwood (London, United Kingdom)
- 15:35-15:50 New chelation options in Thalassaemia and parameters to evaluate their efficacy
Renzo Galanello (Cagliari, Italy)
- 15:50-16:05 MR sequences in Thalassemia
Stathis D. Gotsis (Athens, Greece)
- 16:05-16:20 Image analysis in Thalassemia
Vincenzo Positano (Pisa, Italy)
- 16:20-16:40 Discussion

16:40-17:10 Coffee Break

**Chair: Caterina Borgna-Pignatti; Ferrara, Italy
Alberto Roghi; Milan, Italy**

- 17:10-17:25 T2* sequence from a research tool to the clinical arena
Dudley Pennell (London, United Kingdom)
- 17:25-17:40 MIOT study: the Italian MRI Network for Thalassemia
Alessia Pepe (Pisa, Italy)

17:55-18:40 CMR in Thalassemia: From national experiences to a European Consensus Document

17:55-18:10 The Point of View of the Thalassemologist
Aurelio Maggio (Palermo, Italy)

18:10-18:25 The Point of View of the Cardiology
Athanasios Aessopos (Athens, Greece)

18:25-18:40 The Point of View of the Cardiology in the CMR Lab
Sofia Mavrogeni (Athens, Greece)

18:40-19:00 Discussion

15.00-18.50 Session I – Basic Course
(Parallel Session to Thalassemia Symposium)

Chairs: Jeanette Schulz-Menger; Berlin, Germany
Ana Almeida; Lissabon, Portugal

15:00 – 15:30 Applied MR physics for the clinician - Basics
Elena Rizzo (Lausanne, Switzerland)

15:30 – 15:40 Update on Safety of MR
Roger Luechinger, (Zurich, Switzerland)

15:40 – 16:05 How to assess cardiac morphology and function by CMR
Ana Almeida (Lissabon, Portugal)

16:05 – 16:35 How to assess flow by CMR and principles of tagging
Hakan Arheden (Lund, Sweden)

Break : 16.40 – 17.20

Chairs : Sven Plein; Leeds, United Kingdom
Heiko Mahrholdt; Stuttgart, Germany

17:20 – 17:40 How to assess myocardial ischaemia by CMR
Jürg Schwitter (Lausanne, Switzerland)

17:40 – 18:00 How to assess myocardial viability by CMR
Jeanette Schulz-Menger (Berlin, Germany)

18:00 – 18:20 How to image vessels - coronary arteries by CMR
Raad Mohiaddin (London, United Kingdom)

18:20 – 18:45 How to make good CMR images – avoid artefacts, optimise SNR etc
Sven Plein, Leeds (United Kingdom)

Wine & Cheese with Poster Presentations

Chairs: Sofia Mavrogeni; Athens, Greece
Jeanette Schulz-Menger; Berlin, Germany

19.15 - 20.15 Poster Session I/I – Iron Detection

- 19.15 – 19.20 Advantage of cardio – magnetic resonance over echocardiography even with a little sample in the assessment of the results of alcohol septal ablation for hypertrophic Cardiomyopathy
Hemodynamic and Interventionist Unit. Puerta del Mar University Hospital. Cádiz.
(* *DADISA Radiology Unit. Cádiz*)
Egea-Serrano, Pilar. Caro, Pilar (). Sancho, Manuel. Fernández-Rivero, Rafael. Zayas, Ricardo. Calle, Germán. Arana, Roque. Vázquez, Rafael*
- 19.20 – 19.25 Complementary assessment of Cardiac Tumors with Echocardiography, Cardiac Magnetic Resonance and Histology
Cardiology¹, Radiology² and Anatomy Pathology³ Department, Infermi Hospital, Rimini, Italy
Samuela Carigi MD1, Francesca Marzo MD1, Marzio Pagliacci MD2, Rodolfo Leurini MD2, Silvia Amati MD1, Annarita Lombardi MD3, Marco Marconi MD1, Enrico Cavagna MD2, Giancarlo Piovaccari MD3.
- 19.25 – 19.30 Precision of multi-echo CMR for myocardial iron overload evaluation is dependent from MR sequence design
1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
2 Cardioradiologia-UTIC “Giovanni Paolo II”, Lamezia Terme, Italy.
3 Ospedale "Sant'Eugenio Papa"- Centro Talassemie, Roma, Italy.
V. Positano¹, A. Meloni¹, A. Pepe¹, M. C. Dell'Amico¹, L. Menichetti¹, B. Favilli¹, C. Ascioti², M. C. Rizzello³, L. Landini¹, M. Lombardi¹.
- 19.30 – 19.35 Correlations between pancreatic iron burden and heart iron overload and function by MRI in a large cohort of thalassemia major patients
1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy; 2 Catholic University of the Sacred Heart, Department of Radiology, Campobasso, Italy; 3 Ospedale Sant'Eugenio Papa - Centro Talassemie, Roma, Italy; 4 A.S.L. BA - Osp. “Di Venere”, Bari, Italy.

A. Pepe¹, A. Meloni¹, V. Positano¹, M. Missere², M. C. Dell'Amico¹, B. Favilli¹, M. C. Rizzello³, L. Sardella⁴, G. Sallustio², M. Lombardi¹, G. Restaino²

- 19.35 – 19.40 Cardiac iron loading measured by multislice multiecho T2* MRI and cardiac disease in male and female patients with thalassemia major
1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy; 2 University of Ferrara, Department of Clinical and Experimental Medicine, Ferrara, Italy; 3 Department of Radiology, University of Palermo, Palermo, Italy; 4 Department of Radiology, University of Ancona, Ancona, Italy
 A. Pepe¹, A. Meloni¹, M. Marsella², V. Caldarelli², G. Turla², M. C. Dell'Amico¹, E. Cracolici³, G. Valeri⁴, V. Positano¹, M. Lombardi¹, C. Borgna-Pignatti²
- 19.40 – 19.45 Cardiac iron overload and function by CMR in different phenotypic groups of Thalassemia Intermedia patients
1 Fondazione G. Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
2 UOC Pediatria - DH Talassemia - AORN A. Cardarelli, Napoli, Italy.
3 Institute of Clinical Physiology of CNR, Epidemiology and Biostatistics Unit, Pisa, Italy.
4 DH Talassemia, Ospedale Madonna delle Grazie, Matera, Italy.
5 Istituto di Radiologia, Policlinico P. Giaccone, Palermo, Italy.
 M. C. Dell'Amico¹, A. Meloni¹, A. Filosa², V. Positano¹, B. Favilli¹, P. Keilberg¹, C. Salvatori¹, P. Pepe³, A. Ciancio⁴, E. Cracolici⁵, M. Lombardi¹ and A. Pepe¹.
- 19.45 – 19.50 Reperfusion haemorrhage as determined by cardiovascular magnetic resonance imaging is associated with larger myocardial infarct size and is a predictor of ventricular arrhythmia
CMR Research Group, University of Leeds, United Kingdom
 Adam N Mather, Aleksandra Radjenovic, John P Greenwood, Sven Plein
- 19.50 – 19.55 Myocardial Blood Flow and Fibrosis in Hypertrophic Cardiomyopathy: clinical correlates
Institute of Clinical Physiology, Fondazione G. Monasterio CNR-Regione Toscana, Pisa, Italy
 Todiere G, Aquaro GD, Barison A, Strata E, Marzilli M, Lombardi M, Pingitore A.
- 19.55 – 20.00 T2* evaluation of iron overload at 3T and comparison with 1.5 T
1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
2 Ospedale Sant'Eugenio Papa - Centro Talassemie, Roma, Italy.
3 Department of Radiology, University of Ancona, Ancona, Italy.

A. Meloni¹, D. De Marchi¹, A. Pepe¹, V. Positano¹, L. Menichetti¹, P. Keilberg¹, M. C. Dell'Amico¹, M. C. Rizzello², G. Valeri³ and M. Lombardi¹

20.00 – 20.05 Prognostic risk stratification in non ischemic dilated cardiomyopathies: role of late gadolinium enhancement patterns

1 Division of Cardiology, Departments of Cardiac, Thoracic, and Vascular Sciences, University of Padua, Italy; 2 Department of Radiology, Padua, Italy; 3 Cardiovascular Pathology, Department of Medical-Diagnostic Science and Special Therapies, University of Padua, Italy.

Martina Perazzolo Marra¹, Cacciavillani Luisa¹, Francesco Corbetti², Giovanni Maria Boffa¹, Giuseppe Tarantini¹, Cristina Basso³, De Lazzari Manuel¹, Veronica Spadotto¹, Filippo Zilio¹, Sabino Iliceto¹

20.05 – 20.10 Cardiac and Liver Iron Load Estimated by T2* and R2 Magnetic Resonance in Patients with Thalassemia Intermedia

1Università di Milano, Policlinico Foundation IRCCS, Milan, Italy; 2Niguarda Hospital, Milan, Italy; 3American University of Beirut, Beirut, Lebanon

A. Roghi², MD Cappellini¹, KM Musallam³, G. Graziadei¹, P. Pedrotti², A. Milazzo², I. Motta¹, AT. Taher³

20.10 – 20.15 Prevalence of fibrosis in thalassemia major assessed by late gadolinium enhancement CMR

Royal Brompton Hospital, London, UK

Kirk P, Carpenter JP, Tanner MA, Pennell DJ.

19.15 – 20.20 Poster Session II/I – Ischemia Perfusion

19.15 – 19.20 Microcirculation and its relation to Aortic Stiffness: An Adenosine Stress Cardiac Magnetic Resonance Study

*Deborah CH Chew, Dennis TL Wong, Matthew I Worthley
Aberdeen Royal Infirmary*

19.20 – 19.25 Three-dimensional first-pass perfusion at 3T using a 32-channel phased-array coil

1Fondazione G Monasterio CNR-Regione Toscana, Italy, 2General Electric, Global Research, Niskayuna, US

M Milanese¹, L Marinelli², C J Hardy², T Foo², A Barison¹, P G Masci¹, V Positano¹, L Landini¹ and M Lombardi¹

19.25 – 19.30 The value of magnetic resonance scar quantification and low-dose dobutamine test for identifying reversible myocardial dysfunction

Vilnius University hospital Santariskiu klinikos, Lithuania

S. Glaveckaite, N. Valeviciene, D. Palionis, M. Mataciunas, A. Laucevicius, V. Skorniakov, G. Uzdavinys

- 19.30 – 19.35 Role of first pass (FP) and delayed enhancement (DE) in functional recovery assessment after acute myocardial infarction (AMI)
(1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
A. Bernardini², C. Napolitano¹, V. Semeraro¹, A. Meduri¹, A. Lombardo¹, L. Natale¹, L. Bonomo¹
- 19.35 – 19.40 The Extent of Perfusion Defect at Myocardial Contrast Echocardiography is Closely Correlated with Myocardial Necrosis as Assessed by Magnetic Resonance Imaging after Acute ST-elevation Myocardial Infarction
(1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
C. Napolitano¹, A. Bernardini², V. Semeraro¹, A. Meduri¹, L.Galiuto¹, L. Natale¹, L. Bonomo¹
- 19.40 – 19.45 Visual semiquantitative assessment of delayed enhancement (DE) and first pass (FP) perfusion defects: Correlation with planimetric data and global functional outcome at follow up
(1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
A. Bernardini², C. Napolitano¹, V. Semeraro, A. Meduri¹, A. Lombardo¹, L. Natale¹, L. Bonomo¹
- 19.45 – 19.50 Transmural flow Heterogeneity can be demonstrated in normal volunteers using full quantification of KT-Sense accelerated myocardial perfusion at 3T
1Cardiovascular Research Division, The Rayne Institute, St Thomas’ Hospital, KCL, London UK
2Division Imaging Sciences, The Rayne Institute, St Thomas’ Hospital, KCL, London, UK
3 Academic Unit of Cardiovascular Medicine, University of Leeds, UK
Tim Lockie¹, Hanson Tang¹, Masaki Ishida², Kalpa De Silva¹, Sebastian Kozerke², Mike Marber¹, Eike Nagel², Sven Plein^{2, 3}
- 19.50 – 19.55 Myocardial Perfusion Szintigraphy or Stress Cardiac Magnetic Resonance: Which is the ideal gatekeeper for the cathlab. An invasive comparison In Patients With Stable Coronary Heart Disease
*LKH Graz West, * Diagnostikzentrum Graz*
H. W. Schuchlenz, M. Kuebeck, W. Weihs, P. Kullnig
- 19.55 – 20.00 BOLD-sensitive magnetic resonance imaging in comparison to contrast-enhanced adenosine-stress perfusion for detection of inducible myocardial ischemia
Department of Internal Medicine II, University of Ulm, Ulm, Germany

Peter Bernhardt, Robert Gradinger, Jochen Spieß, Volker Rasche, Vinzenz Hombach

20.00 – 20.05 Stress cardiac magnetic resonance in an outpatient setting: a four year experience in more than 1000 patients
1 Cardiology Service, Geneva University Hospitals, Geneva, 2 Centre de Diagnostic Radiologique de Carouge, Switzerland
Susanna Prat- Gonzalez¹, Golmehr Ashrafpoor¹, Amir-Ali Fassa ¹, Yannick Magliano² Alain Naimi ², Juan Sztajzel ²

20.05 – 20.10 Stress Cardiac Magnetic Resonance Imaging in elderly patients
1 Cardiology Service, Geneva University Hospitals, Geneva, 2 Centre de Diagnostic Radiologique de Carouge, Switzerland
Susanna Prat-Gonzalez¹, Golmehr Ashrafpoor¹, Amir-Ali Fassa ¹, Yannick Magliano ², Alain Naimi ², Juan Sztajzel ²

20.10 – 20.15 Exercise electrocardiography correlates poorly to non-invasive anatomical and functional imaging modalities for the diagnostic evaluation of coronary artery disease
VU University Medical Center, Amsterdam, the Netherlands
JGJ Groothuis, AM Beek, SL Brinckman, G Singh, MR Meijerink, MBM Hofman, AC van Rossum

20.15 – 20.20 Comparison between first-pass enhancement and delayed hypoenhancement on cardiac magnetic resonance after reperfused acute myocardial infarction. Relationship between cardiac magnetic resonance and angiography
1 Division of Cardiology, Departments of Cardiac, Thoracic, and Vascular Sciences, University of Padua, Padua, Italy; 2 Department of Radiology, Padua, Italy; 3 Cardiovascular Pathology, Department of Medical-Diagnostic Sciences, University of Padua, Padua, Italy
Martina Perazzolo Marra¹, Luisa Cacciavillani¹, Giuseppe Tarantini¹, Francesco Corbetti², Massimo Napodano¹, Cristina Basso³, Manuel De Lazzari MD¹, Armando Marzari¹, Francesco Maddalena¹, Sabino Iliceto¹

19.15 – 20.15 Poster Session III/I - Infarction and differential diagnosis

19.15 – 19.20 MRI evaluation of the role of No-Reflow in left ventricular remodeling after Acute Myocardial Infarction (AMI)
(1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale “G.Mazzini”, Teramo, Italy
A. Bernardini², C. Napolitano¹, V. Semeraro¹, A. Meduri¹, A. Lombardo¹, L. Natale¹, L. Bonomo¹

19.20 – 19.25 Right ventricular ischemic injury in patients with acute ST-segment elevation myocardial infarction

Fondazione G. Mostaterio/CNR Regione Toscana

PG. Masci, M. Francone, J. Ganame, W. Desmet, I. Carbone, E. Strata, G. Todiere, L. Agati, M. Lombardi, S. anssens, J. Bogaert

- 19.25 – 19.30 Incremental prognostic value of fibrosis in patients with known or suspected heart failure
Cardiovascular Magnetic Resonance Unit, Royal Brompton Hospital, London, UK
Masliza Mahmood, Khaled Mahmoud-Tawfik, Isabelle Roussin, Cheuk Chan, Francisco Alpendurada, Sanjay Prasad, Dudley Pennell
- 19.30 – 19.35 Association between early reduction of QT Dispersion and Microvascular Obstruction among Patients with acute Non-ST-Segment Myocardial Infarction Assessed by Cardiac Magnetic Resonance Imaging Resonance Imaging
¹*Department of Cardiology and Angiology, Elisabeth Hospital Essen, Germany*
²*Department of Diagnostic and Interventional Radiology and Neuroradiology, University of Essen, Germany*
Ch. J. Jensen 1, S. Lusebrink1, H.-C. Eberle1, T.Schlosser2, K.Nassenstein2, C.K. Naber1, G.V. Sabin1, O.Bruder1
- 19.35 – 19.40 Microvascular obstruction assessed by CMR imaging in NSTEMIs is associated with adverse outcome
The London Chest Hospital, London, United Kingdom
J. Wong, DV. Anand , E. Wicks, R. Boubertakh, K. Naem, T. Burchill, PG. Mills, SE. Petersen, A. Mathur, LC. Davies, MA. Westwood
- 19.40 – 19.45 Role of cardiac magnetic resonance in the evaluation of myocardial tissue abnormalities underlying different values of coronary flow reserve in patients with acute myocardial infarction
¹*Clinical Cardiology, Department of Cardiac, Thoracic and Vascular Sciences, University of Padova, Padova, Italy;* ²*Division of Radiology, Padova, Italy*
Perazzolo Marra M1, Tona F1, Cacciavillani L1, Tarantini G1, Corbetti F2, De Lazzari M1, China P1, Iliceto
- 19.45 – 19.50 Acute Myocarditis Presenting as Acute Coronary Syndrome. Diagnostic Importance of Early Cardiac Magnetic Resonance Imaging
Department of Cardiology, The London Chest Hospital, Barts and the London NHS Trust, London, UK
Monney P, Sehkre N, Burchell TR, Wong J, Wragg A, Jain A, Deaner A, Knight C, Petersen S , Davies LC, Westwood MA, Mills PG, Mathur A, Mohiddin SA
- 19.50 – 19.55 Myocarditis: can trueFISP used for movies replace sequences dedicated for delayed contrast enhancement?

(1) Department of Cardiology, Kaiser Franz Josef Spital, Vienna, Austria
 (2) Department of Radiology, Kaiser Franz Josef Spital, Vienna, Austria
 Thomas Hafner (1), Katharina Gammer (1), Sabine Hoffmann (1), Barbara Horvath-Mechtler (2), Christine Krammer (2), Wolfgang Kumpan (2), Andrea Podczeck-Schweighofer (1)

19.55 - 20.00 Takotsubo cardiomyopathy with ST-segment elevation; clinical characteristics and contribution of cardiovascular magnetic resonance
 Oslo University Hospital, Ullevaal, Oslo, Norway
 Stensaeth KH, Fossum E, Mangschau A, Skretteberg PT, Hoffmann P, Klow NE

20.00 – 20.05 Cardiovascular Magnetic Resonance in Patients With Chronic Heart Failure Suspected of Myocarditis. A Comparison to Immunohistology
 Silesian Center for Heart Disease, Zabrze, Poland
 Karol Miszalski-Jamka MD, Jolanta Nowak MD, Beata Spinczyk MD, Jan Glowacki MD, Zbigniew Kalarus MD PhD, Romuald Wojnicz MD PhD

20.05 – 20.10 The extent of right ventricle dysfunction and myocardial infarction are independent outcome predictors early after ST segment elevation myocardial infarction
 Center for Diagnosis, Prevention and Telemedicine, John Paul II Hospital, Kraków, Poland
 Tomasz Miszalski-Jamka, Piotr Klimeczek, Marek Tomala, Maciej Krupiński, George Zawadowski, Jessica Noelting, Michał Lada, Katarzyna Sip, Robert Banyś, Krzysztof Żmudka, Mieczysław Pasowicz

20.10 – 20.15 Hibernating myocardium in patients with suspected cardioembolic stroke
 Departments of 1Clinical Radiology, 2Neurology, and 3Heart Center Kuopio University Hospital and 4University of Eastern Finland, Kuopio, Finland
 Petri Sipola^{1,4}, Pekka Jäkälä^{2,4}, Ritva Vanninen^{1,4}, Marja Hedman^{1,3}

Friday, May 28th, 2010

8.45 - 9.00 Welcome

**Jürg Schwitter; Lausanne, Switzerland
 Massimo Lombardi; Chair WG EuroCMR 2010**

9.00 – 9.30 Opening Plenary Session

Chairs: **Massimo Lombardi; Pisa, Italy**
Jürg Schwitter; Lausanne, Switzerland

CMR imaging of myocardial infarction: from concepts to clinical trials
 A historical perspective
 Albert van Rossum (Amsterdam, The Netherlands)

9.30 – 11.00 Session II - Where CMR makes a difference in common clinical scenarios

Chairs: **Jeanette Schulz-Menger; Berlin, Germany**
Peter Buser; Basel, Switzerland

- 09.30 – 09:50 Hypertrophic cardiomyopathy: Using CMR to link genetics with phenotypes
James Moon; London (United Kingdom)
- 09:50 – 10:15 How a heart failure CMR service can improve patient care
Dudley Pennell (London, United Kingdom)
- 10.15 – 10:35 Myocarditis: do we still need cardiac biopsies or can CMR provide all the information?
Heiko Mahrholdt (Stuttgart, Germany)
- 10:35 – 10:55 The role of CMR in pulmonary arterial hypertension
Gert Jan Mauritz (Amsterdam, The Netherlands)

9.30 - 11.00 Parallel Session III - New Technologies – Future Perspectives – Nuclei and Tesla's

Chairs : **Rene Botnar; London, UK**
Jürg Schwitter; Lausanne, Switzerland

- 09.30 – 09:50 Field strengths: 1.5T, 3T, 7T, and more
Florian von Knobelsdorff (Berlin, Germany)
- 09:50 – 10:15 Vessel wall and targeted imaging: How deep are we in-it?
Rene Botnar (London, United Kingdom)
- 10.15 – 10:35 ¹⁹F-MR-Imaging: Extending the frontiers of CMR
Ulrich Flögel (Düsseldorf, Germany)
- 10:35 – 10:55 Hyperpolarized ¹³C-Metabolic imaging – a new era of MR?
Damian Tyler (Oxford, United Kingdom)

Break: 11.00 – 11.30

11.30 - 12.30 Session IV – Read with the Experts 1: The Best Cases from around Europe

**Chairs: James Moon; London, United Kingdom
Heiko Mahrholdt; Stuttgart, Germany**

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| 11:30 – 11:45 | Case 1: Cases from Amsterdam Albert van Rossum (Amsterdam, The Netherlands) |
| 11:45 – 11:55 | Case 2: Cases from Basel Peter Buser (Basel, Switzerland) |
| 11:55 – 12:10 | Case 3: Cases from Tulln Herbert Frank (Tulln, Austria) |
| 12:10 – 12:25 | Case 4: Cases from Pisa Massimo Lombardi (Pisa, Italy) |

11.30-13.20 Parallel Session V: Technologists Round Table

Chairs:

- Petra Keilberg; Pisa, Italy**
- Denise Kleindienst; Berlin, Germany**
- Peter Drivas; London, United Kingdom**

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| 11:30 – 11:35 | Opening Remarks/Welcome |
| 11:35 – 12:05 | Basics of CMR Petra Keilberg (Pisa, Italy) |
| 12:05 – 12:35 | Viability Study Denise Kleindienst (Berlin, Germany) |
| 12:35 – 13:05 | MR – Angiography Peter Drivas (London, United Kingdom) |
| 13.05 – 13.20 | Technologist’s Round Table & Discussion |

12.30-13.30 Session VI – Abstracts: Ischemic Heart Disease

**Chairs: Raad Mohiaddin ; London, United Kingdom
Ana Almeida; Lissabon, Portugal**

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| 12.30 – 12.38 | A systematic achievement of a 3 Teslas CMR for patients with troponin elevated acute chest pain syndrome and unobstructed coronary arteries |
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Département de Cardiologie et Maladies Vasculaires, CHU de Rennes, France; Département de Radiologie et d'Imagerie Médicale, CHU de Rennes, France; Centre d'Investigation Clinique, CHU de Rennes, France
G Leurent, B Langella, C Fougerou, PA Lentz, A Larralde, M Bedossa, D Boulmier, H Le Breton

- 12.38 – 12.46 Five-year follow-up of elderly subjects with unrecognized myocardial infarction
** Department of Radiology, Uppsala University Hospital, Sweden*
† Astrazeneca, Gothenburg, Sweden
‡ Department of Medicine, Uppsala University Hospital, Sweden
Charlotte Ebeling Barbier MD, Lars Johansson*†, PhD, Tomas Bjerner* MD, PhD, Lars Lind‡, MD, PhD, and Håkan Ahlström* MD, PhD*
- 12.46 – 12.54 Cardiovascular Magnetic Resonance Imaging for evaluation of differential pulmonary blood flow in congenital heart disease with S/P RVOT-PA reconstruction and pulmonary branches anomalies. Comparison with Lung Perfusion Scintigraphy
*Department of Cardiology and Paediatric Cardiology *, Radiology **, Paediatrics ° – Regional Hospital of Bolzano*
Department E.S.I. Section of Statistics^ – University of Verona
R.Crepaz, J.Stuefer**, M.Guerriero^, C.Romeo*, C.Pedron°, G.Bonatti**, W.Pitscheder**
- 12.54 – 13.02 Myocardial perfusion increases by adenosine after 12 and 24 hour caffeine abstinence
Department of Clinical Physiology, Department of Radiation Physics, Lund University Hospital
Marcus Carlsson, Karin Markenroth, Bo Hedén, Freddy Ståhlberg, Håkan Arheden
- 13.02 – 13.10 Mild coronary calcification is associated with reduced regional and global stress myocardial perfusion
VU University Medical Center, Amsterdam, The Netherlands
JGJ Groothuis, AM Beek, SL Brinckman, MR Meijerink, FPPJ Kremers, MBM Hofman, AC van Rossum
- 13.10 – 13.18 Post-infarction ventricular remodeling: a geometric point of view
Erasmus MC, The Netherlands
Tirza Springeling, Andre Uitterdijk, Alexia Rossi, Piotr A. Wielopolski, Willem J. van der Giessen, Dirk J. Duncker, Pim J. de Feyter, Robert-Jan M. van Geuns
- 13.18 – 13.26 Three-Dimensional Myocardial MR Perfusion Imaging using k-t SENSE

The Rayne Institute, King's College London, St. Thomas' Hospital, London, UK

Kalpa De Silva, Tim Lockie, Simon Redwood, Divaka Perera, Sebastian Kozerke, Eike Nagel, Sven Plein

13.30-14.30 Session VII – Industry Forum & Lunch

**Chairs: Massimo Lombardi; Pisa, Italy
Herbert Frank; Tulln, Austria**

13.30 – 14.30 New Frontier of CMR: from Anatomy to Quantification
Maggie Fung (General Electric, USA)
Reto Merges (Siemens, Germany)

14.30 - 15.00 Session VIII – Read with the Experts 2: The Best Cases from around Europe

**Chairs: Dudley Pennell, London (United Kingdom)
Anja Wagner (Philadelphia, USA)**

Multimodality Cases

14:30 – 14:40 Cases from Leeds
Sven Plein (Leeds, United Kingdom)

14:40 – 14:50 Cases from Lissabon
Ana Almeida (Lissabon, Portugal)

14:50 – 15:00 Cases from Essen
Oliver Bruder (Essen, Germany)

15.00 – 16.00 Session IX – Where CMR makes a difference: CMR Guidance for Interventions and Treatment of Arrhythmias

**Chairs: Frank Rademakers (Leuven, Belgium)
Albert van Rossum (Amsterdam, The Netherlands)**

15:00 – 15:10 Significance of left atrium size and diastolic dysfunction
Frank Rademakers (Leuven, Belgium)

15:10 – 15:20 Ablations in the CMR environment
Tobias Schaeffter (London, United Kingdom)

15:20 – 15:30 CMR guidance for percutaneous valve implantations
Carl Schulz (Rotterdam, The Netherlands)

- 15:30 – 15:40 Computerized evaluation of postischemic myocardium and mitral valve function
Oberdan Parodi (Milan, Italy)
- 15:40 – 15:50 CMR guidance for CRT: better than echo?
Jürg Schwitter (Lausanne, Switzerland)

16.00-16.20 Coffee Break and Posters

Chairs: **Oliver Bruder; Essen, Germany**
Anja Wagner; Philadelphia, USA

Poster Session I/II - Metabolism

- 16.00 – 16.05 Myocardial structural, perfusional and metabolic correlates of left bundle branch block mechanical derangements in patients with dilated cardiomyopathy
Fondazione G.Monasterio CNR/Regione Toscana – Istituto di Fisiologia Clinica CNR – Pisa- Italy
PG. Masci, M. Marinelli, M. Piacenti, V. Lorenzoni, V. Positano, M. Lombardi, A. L'abbate, D. Negli
- 16.05 – 16.10 Assessing Cardiac Metabolism with ¹³C – Magnetic Resonance spectroscopy and hyperpolarized [1-¹³C] pyruvate in minipigs
1 Institute of Clinical Physiology, National Council of Research, Pisa, Italy; 2 Fondazione G.Monasterio CNR-Regione Toscana, Pisa; 3 Sector of Medicine, Scuola Superiore Sant'Anna, Pisa; 4 GE Healthcare, Huginvej 8, 3400 Hillerod, Denmark; 5 Department of Physics, University of Pisa, Pisa, Italy; 6 Department of Physiology, New York Medical College, Valhalla, New York
F. Frijia 1, L. Menichetti 2, V. Lionetti 3, MF. Santarelli 2, JH. Ardenkjaer-Larsen 4, G. Giovannetti 2, M. Milanesi 1, V. Positano 1, A. Flori 5, D. De Marchi 1, G. Aquaro 1, M. Campan 3, F. A. Recchia 1,6, L. Landini 1, M. Lombardi 1
- 16.10 – 16.15 In vivo and in vitro spectroscopy of LDH isoenzyme activities using hyperpolarized [1-¹³C] pyruvate
1 Faculty of Physics, University of Pisa, Pisa, Italy; 2 Institute of Clinical Physiology, National Council of Research, Pisa, Italy; 3 Fondazione G.Monasterio CNR-Regione Toscana, Pisa; 4 Institute of Chemical and Physics Processes, National Council of Research, Pisa, Italy; 5 Sector of Medicine, Scuola Superiore Sant'Anna, Pisa and Department of Physiology, New York Medical College, Valhalla, New York

*A.Flori¹, L. Menichetti², F. Frijia³, M.F. Santarelli², C.Forte⁴,
 L.Calucci⁴, M. Milanese³, G. Giovannetti², D. De Marchi³, F.A.
 Recchia⁵, L. Landini³, M. Lombardi³*

- 16.15 – 16.20 Cardiac Involvement in patients with family amyloid polyneuropathy early demonstration with Cardiac Magnetic Resonance
Department of Radiological Sciences, University of Messina, Messina, Italy
Rocco Donato, Michele Gaeta, Anna Mazzeo, Fabio Minutoli, Gianluca di Bella

Poster Session II/II - Function and Image Analysis

- 16.00 – 16.05 An image analysis tool for global and regional quantitative assessment of myocardial necrosis by CMR
1MRI Laboratory, Fondazione G. Monasterio CNR-Regione Toscana, Pisa, Italy 2Institute of Clinical Physiology, Pisa and Milan, Italy 3Dept. Bioengineering, Politecnico di Milano, Milano, Italy
V. Positano¹, M. Marinelli², E. Caiani³, A. Pingitore², A. Redaelli³, M. Lombardi¹, M.F. Santarelli², L. Landini¹, O. Parodi²
- 16.05 – 16.10 Dynamic Substrate Mapping for detection human myocardial scar tissue
(1) Università Cattolica del Sacro Cuore, Roma, Italy ; (2) Ospedale "G.Mazzini", Teramo, Italy
C. Napolitano¹, A. Bernardini², V. Semeraro¹, A. Meduri¹, A. Dello Russo¹, L. Natale¹, L. Bonomo¹
- 16.10 – 16.15 Rapid left assessment of left ventricular volumes and function using radial long axis geometry
Department of Internal Medicine II, University of Ulm, Ulm, Germany
Peter Bernhardt, MD, Jochen Spieß, MD, Axel Bornstedt, PhD, Vinzenz Hombach, MD, Volker Rasche, PhD
- 16.15 – 16.20 Left ventricle modelling: a functional predictive tool for the evaluation of the post-operative mechanical performance
Politecnico di Milano, Milano, Italy; CNR Clinical Physiology Institute and G. Monasterio Foundation, Pisa, Italy
E. Votta, C.A. Conti, M. Lombardi, E. Caiani, G. Aquaro, O. Parodi, A. Redaelli

Poster Session III/II - Risk factors and physiology

- 16.00 – 16.05 Absence of late gadolinium enhancement does not exclude severe coronary artery disease
Helios Klinikum and Charite Medical University Berlin, Germany
R Wassmuth, M Prothmann, J Schulz-Menger
- 16.05 – 16.10 Relationship between right and left ventricle mass in uncomplicated systemic arterial hypertension: a study with cardiac magnetic resonance
Institute of Clinical Physiology, Fondazione G. Monasterio CNR-Regione Toscana, CNR, Pisa. Italy
Giancarlo Todiere, Giacinta Guarini, Danilo Neglia, Sergio Ghione, Enza Fommei, Paolo Camici, Giulia
- 16.10 – 16.15 Determination of CMR derived regional and local aortic pulse wave velocity in healthy volunteers and patients with coronary artery disease
Medical University Innsbruck, Department of Internal Medicine III, Department of Radilogy
Klug G, Hecker U, Kremser C, Mayr A, Voelkl J, Trieb T, Schocke M, Jaschke W, Pachinger O, Metzler B
- 16.15 – 16.20 Set Up and Impact of a Technologist Supervised Adenosine Stress Cardiac MR Service
Southampton University Hospitals Trust
Alison Fletcher, Dr Charles Peebles, Dr Stephen Harden

16.20-17.20 Session X – Imaging of the Coronary Arteries and Great Vessels: What is the Role of CMR today?

Chairs: Matthijs Oudkerk; Groningen, The Netherlands
Matthias Stuber; Lausanne, Switzerland

- 16:20 – 16:40 Coronary MRA: current status and perspectives
 Matthias Stuber (Lausanne, Switzerland)
- 16:40 – 16:55 Aortic Diseases: CMR versus CT and Echo
 Raad Mohiaddin (London, United Kingdom)
- 16:55 – 17:15 Pulmonary Arteries: the unique role of CMR
 Matthijs Oudkerk (Groningen, The Netherlands)

17.30-18.30 Session XI – Best Abstracts

Chairs: Eike Nagel; London, United Kingdom

Herbert Frank; Tulln, Austria

- 17.30 – 17.39 The development of hypertrophy and myocardial fibrosis in asymptomatic MvBPC3 gene mutation carriers: mid-term follow-up results
*VU University Medical Center Amsterdam
W Brouwer, T Germans, AM Beek, AC Houweling, I Christiaans, J van der Velden, AAM Wilde, AC van Rossum*
- 17.39 – 17.48 Myocardial fibrosis by delayed enhancement cardiovascular magnetic resonance and HCV infection in thalassemia major patients
*1 Fondazione G.Monasterio CNR-Regione Toscana and Institute of Clinical Physiology, Pisa, Italy; 2 P.O. G. Di Cristina, ARNAS Civico, Palermo, Italy; 3 University of Ferrara, Department of Clinical and Experimental Medicine, Ferrara, Italy; 4 Ematologia II con Talassemia, “V. Cervello” Hospital, Palermo, Italy; 5 Department of Radiology, University of Palermo, Palermo, Italy.
A. Pepe¹, A. Meloni¹, Z. Borsellino², M. C. Dell’Amico¹, C. Borgna-Pignatti³, A. Maggio⁴, V. Positano¹, E. Cracolici⁵, M. Lombardi¹, M. Capra²*
- 17.48 – 17.57 Importance of CMR in conveying additional predictive outcome values for patients with suspected ARVC
*CMR Unit, Royal Brompton & Harefield Foundation Trust, London UK; Imperial College, London, United Kingdom
M. Deac, R. Vimal, F. Fanaie, C. Miller, A. Dawson, J. Wong, D. Dawson, I. Roussin, M. Roughton, DJ. Pennell, SK. Prasad*
- 17.57 – 18.06 Cost benefit assessment of cardiac magnetic resonance imaging in acute coronary syndrome and unobstructed coronary angiograms
*Department of Cardiology, The London Chest Hospital, Barts and the London NHS Trust, London, UK
P. Monney, TR. Burchell, P. Wright, N. Sekhri, K. Khimdas, J. Wong, A. Wragg, A. Deaner, PG. Mills, C. Knight, LC. Davies, A. Mathur, MA. Westwood, SA. Mohiddin*
- 18.06 – 18.15 Myocardial edema detection after acute myocardial infarction: comparison between qualitative T2weighted imaging and quantitative T2 mapping
*Erasmus MC, Rotterdam, the Netherlands
Tirza Springeling, Adriaan Moelker, Alexia Rossi, Piotr Wielopolski, Gyula Kotek, Pim J. de Feijter, Robert-Jan M. van Geuns*

18.15 – 18.24 Carotid atheroma composition as determined by Magnetic Resonance predicts Coronary artery disease severity
Department of Cardiovascular Medicine, University of Oxford, Oxford, United Kingdom
Ilias Kylintireas, Cheerag Shirodaria, Justin Lee, Charalambos Antoniadis, Matthew Robson, Jane Francis, Stefan Neubauer, Keith Channon, Robin Choudhury

**18.30– 19.00 Session XII – The CMR European Community
European Registry on CMR**

Chairs: Heiko Mahrholdt; Stuttgart, Germany
Massimo Lombardi; Pisa, Italy

18:30 – 18:40 Current status – participating sites
Oliver Bruder (Essen, Germany)

18:40 – 18:45 Quality Aspects
Jürg Schwitter (Lausanne, Switzerland)

18:45 – 19:00 Substudies
Eike Nagel (London, United Kingdom)

Saturday, May 29th, 2010

8:30 – 9:30 Session XIII – Where CMR makes a difference in common Congenital Problems: Imaging the Postoperative Tetralogy of Fallot

**Chairs: Emanuela Valsangiacomo-Büchel; Zurich, Switzerland
Willem A. Helbing; Rotterdam, The Netherlands**

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| 08:30 – 08:40 | Tricks and Pitfalls of CMR in congenital heart disease Christian Kellenberger (Zurich, Switzerland) |
| 08:40 – 08:50 | CMR for timing pulmonary valve replacement Emanuela Valsangiacomo-Büchel (Zurich, Switzerland) |
| 08:50 – 09:00 | Advanced Imaging in TOF – The role of Dobutamine stress test Willem A. Helbing (Rotterdam, The Netherlands) |
| 09:00 – 09:10 | Transcatheter pulmonary valve replacement – does imaging help? Vivek Muthurangu (London, United Kingdom) |
| 09:10 – 09:20 | Postoperative TOF – bringing Imaging into clinics Pierluigi Festa (Pisa, Italy) |

09.30 - 10.30 Session XIV – Abstracts: Cardiomyopathy

**Chairs: Matthias Friedrich; Calgary, Canada
James Moon; London, United Kingdom**

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| 09.30 – 09.38 | Effect of myocardial iron removal on right ventricular function: insights from a randomized, placebo controlled, double-blind trial in thalassemia major <i>Royal Brompton Hospital, London</i> <i>F Alpendurada, JP Carpenter, GC Smith, MA Tanner, W Banya, R Galanello, DJ Pennell</i> |
| 09.38 – 09.46 | Myocardial late gadolinium enhancement extension on cardiac magnetic resonance images as a predictor of cardiac events in heart transplant patients <i>1 De Gasperis Cardiology Department, Niguarda Ca'Granda Hospital, Milan, Italy; 2 Federico II University, Naples, Italy</i> <i>Patrizia Pedrotti, MD1, Claudia Vittori, MD1, Stefano Pedretti, MD1, Santo Dellegrottaglie, MD, PhD2, Angela Milazzo, MD1, Manlio Cipriani, MD1, Maria Frigerio, MD1, Francesco Mauri, MD1 and Alberto Roghi, MD1</i> |

- 09.46 – 09.54 The impact of tricuspid regurgitation in Ebsteins anomaly compared with pulmonary regurgitation in repaired Tetralogy of Fallot on cardiac output and exercise capacity
The Royal Brompton Hospital and Imperial College London
Sylvia SM Chen, Konstantinos Dimopoulos, Michael A. Gatzoulis and Philip J. Kilner
- 09.54 – 10.02 Determinants of ventricular responses to increased aortic stiffness at rest and stress are gender-specific: a dobutamine-stress magnetic resonance imaging study
The German Heart Institute Berlin, Germany¹, Imperial College London, United Kingdom²
Valentina O. Puntmann^{1,2}, MRCP, MD, PhD; Cosima Jahnke¹, MD; Jesus G. Mirelis¹, MD; Kevin F. Fox², MD FRCP FESC; Rolf Gebker¹, MD; Bernhard Schnackenburg¹, PhD; Eckart Fleck¹, MD; Ingo Paetsch¹, MD
- 10.02 – 10.10 A T2* MRI Prospective Survey on Heart and Liver Iron in Thalassemia Major patients treated with Deferasirox, Deferiprone and Desferrioxamine
1 Fondazione G.Monasterio CNR - Regione Toscana and Institute of Clinical Physiology, Pisa, Italy.
2 Institute of Clinical Physiology of CNR, Epidemiology and Biostatistics Unit, Pisa, Italy.
3 Unità Microcitemia – AORN A. Cardarelli, Napoli, Italy.
4 Servizio Prevenzione, Diagnosi e Cura Talassemia - Ospedale G. di Cristina, Palermo, Italy.
5 Centro Talassemie – Ospedale S. Eugenio Papa, Roma, Italy.
6 Centro Microcitemia - Ospedale Garibaldi, Catania, Italy.
7 Istituto Radiologia – Policlinico P. Giaccone, Palermo, Italy.
8 Ematologia II con Talassemia – Ospedale V. Cervello, Palermo, Italy.
A. Pepe¹, G. Rossi², A. Meloni¹, MC Dell’Amico¹, A. Spasiano³, M. Capra⁴, P. Cianciulli⁵, V. Caruso⁶, B. Favilli¹, E. Cracolici⁷, M. Lombardi¹ and A. Maggio⁸
- 10.10 – 10.18 Myocardial delayed enhancement in nonischemic dilated cardiomyopathy: prognostic role in paucisymptomatic patients
Scuola Superiore “Sant’Anna” and “G. Monasterio” CNR - Regione Toscana Foundation, Pisa, Italy
Andrea Barison, Pier Giorgio Masci, Giovanni Donato Aquaro, Matteo Milanese, Alessandro Pingitore, Claudio Passino, Michele Emdin, Massimo Lombardi
- 10.18 – 10.26 The Prevalence of Right Ventricular Systolic Dysfunction in Dilated Cardiomyopathy. A CMR study

*Royal Brompton Hospital, National Heart and Lung Institute,
Imperial College*

R. Gordon, A.Gulati, S.Joshi, B. Saville, S Raza, G Manolis, S.Prasad

10.30-11.00 Coffee Break and Posters

Chairs: **Steffen Petersen; London, United Kingdom**
Oliver Bruder; Essen, Germany

Poster Session I/III - Adult Congenital Heart Disease and Valves - 1

- 10.30 – 10.35 Three-Dimensional Analysis of Septal Curvature from Cardiac Magnetic Resonance Images for the Evaluation of Severity of Pulmonary Hypertension
University of Chicago, Chicago, Illinois, USA, and Politecnico di Milano, Milan, Italy
Francesco Maffessanti, Maria-Agustina Sciancalepore, Amit R. Patel, Mardi Gomberg-Maitland, Enrico G. Caiani, Benjamin H. Freed, Roberto M. Lang, Victor Mor-Avi
- 10.35 – 10.40 Four-dimensional phase contrast imaging demonstrates variability of intra-cardiac flow patterns in newborn infants
Division of Clinical Sciences, Imperial College London and MRC Clinical Sciences Centre, U.K
Division of Imaging Sciences, King's College London, U.K
Giuliana Durighell, Nora Tusor¹, Reza Razavi², Jo Hajnal¹, David Edwards¹, Alan Groves¹
- 10.40 – 10.45 Can the outcome of post partum cardiomyopathy be predicted using late gadolinium enhancement CMR?
Royal Brompton Hospital, London, UK
Isabelle Roussin, MD, Chirine Parsai, MD, Sanjay Prasad, MD,MRCP, Dudley Pennell, MD, FRCP,FESC,FACC.
- 10.45 – 10.50 4-Dimensional Magnetic Resonance Imaging Reveals Different Flow-Patterns after Various Forms of Aortic Valve Replacement
(1) Working Group on Cardiovascular MRI, Charité Medical University Berlin, HELIOS-Klinikum Berlin-Buch, Germany
(2) Dept. of Radiology / Medical Physics, University Hospital Freiburg, Germany
Florian von Knobelsdorff-Brenkenhoff, MD (1); Ralf Wassmuth, MD (1); Michael Markl, PhD (2); Jeanette Schulz-Menger, MD (1)

- 10.50 – 10.55 MR angiography vs CT angiography in the follow up of endovascular thoracic aortic repair
*Vascular and Interventional Radiology Unit. Udine University Hospital. Udine Italy, * Cardiothoracic DPT, Udine University Hospital. Udine Italy*
Gianluca Piccoli, Francesco Toso, Gianaugusto Slavich, Saverio Grillane, Igor Vendramin*, Ugolino Livi*, Daniele Gasparini*

Poster Session II/III - Adult Congenital Heart Disease and Valves - 2

- 10.30 – 10.35 Atrial baffles anomalies in transposition of the great arteries after atrial switch: diagnosis and clinical significance
a Cardiovascular Department, Istituto Giannina Gaslini, Genova, b O.U. Pediatric Cardiology, c MRI Lab IFC, Fondazione Gabriele Monasterio CNR, Massa-Pisa, d Service of Radiology, Istituto Giannina Gaslini, Genova.
G. Trocchio a, L. Ait-Ali b-c, F. Rizzo d, P. Tomà d, M. Marasini a, P. Festa b-c
- 10.35 – 10.40 Patient-specific modelling of the mitral valve based on cardiac magnetic resonance imaging
Politecnico di Milano, Milano, Italy; CNR Clinical Physiology Institute and G. Monasterio Foundation, Pisa, Italy
C.A. Conti, M. Stevanella, D. De Marchi, F. Maffessanti, E. Caiani, M. Lombardi, O. Parodi, A. Redaelli
- 10.40 – 10.45 MRI predictive factors of residual systemic hypertension in aortic coarctation after percutaneous stent
O.U. Pediatric Cardiology, ^MRI Lab and °IFC- CNR, Fondazione Gabriele Monasterio, Massa Pisa.
L. Ait-Ali^, S. Recla*, S. Kull*, A. Ripoli°, M. Deiana^, N. Assanta*, I. Spadoni*, P. Festa*^*
- 10.45 – 10.50 Feasibility of a novel approach for 3D mitral valve quantification from CMR images
1 Bioengineering Dpt, Politecnico di Milano, Milano, Italy 2 CNR Clinical Physiology Institute, Pisa, Italy
Maffessanti F1, Stevanella M1, Votta E1, Lombardi M2, Parodi O2, De Marchi D2, Conti CA1, Redaelli A1, Caiani EG1
- 10.50 – 10.55 Grading of aortic regurgitation: impact of additional measurements and phantom correction
Helios Klinikum and Charite University Medicine Berlin, Germany
R Wassmuth, F von Knobelsdorff, J Schulz-Menger

10.55 – 11.00 Patterns of left ventricular hypertrophy and mortality in patients with Aortic Stenosis
1Royal Brompton Hospital London; 2Centre for Cardiovascular Science, University of Edinburgh
M. Dweck^{1,2}, S. Joshi¹, T. Murigu¹, A. Gulati¹, D. Newby², D. Pennell¹, S. Prasad¹

Poster Session III/III - Adult Congenital Heart Disease and Valves - 3

10.30 – 10.35 Mid-wall fibrosis is an independent predictor of mortality in patients with aortic stenosis
1Royal Brompton Hospital London; 2Centre for Cardiovascular Science, University of Edinburgh
M. Dweck^{1,2}, S. Joshi¹, T. Murigu¹, F Alpenduradol,^{R Mohiaddin¹, D. Newby², D. Pennell¹, S. Prasad¹}

10.35 – 10.40 Predictors of myocardial fibrosis in aortic stenosis evaluation by late-enhanced MRI
Cliniques St. Luc UCL, Brussels Belgium
S. Pierard, S. Seldrum, C. De Meester, A. Pasquet, D. Vancraeynest, JL. Vanoverschelde, B L M. Gerber

10.40 – 10.45 Incidence of periprocedural necrosis in different types of cardiac valve surgery assessed by CMR
Cliniques St. Luc UCL, Brussels Belgium
B L Gerber, C. De Meester, S. Seldrum, S. Pierard, A. Pasquet, JL. Vanoverschelde

10.45 – 10.50 Left Ventricular Systolic Dysfunction as Defined by MRI in Isolated Ventricular Non-Compaction
Federico II University of Naples, Italy and Niguarda-Ca' Granda Hospital, Milan, Italy
Dellegrottaglie S, Pedrotti P, Pedretti S, Chiariello M, Perrone-Filardi P, Roghi A.

10.50 – 10.55 Role of CMR in cardiovascular assessment of Gaucher disease
 CMR Unit, Department of Cardiology, Niguarda Ca'Granda Hospital
**Fondazione Policlinico IRCCS, University of Milan*
A.Roghi, P.Pedrotti, A.Milazzo, E.Cassinero, M.D.Cappellini**

10.55 – 11.00 Diastolic Filling Patterns of the Left Ventricle Using Volume Tracking in Flow from 4D Phase Contrast MRI
Department of Clinical Physiology, Lund University and Region of Scania University Hospital, Lund, Sweden

*Johannes Töger, Marcus Carlsson, Håkan Arheden, Gustaf Söderlind
 and Einar Heiberg*

**11.00-12.00 Session XV – Current controversies in CMR from the Pathologist’s and
 Clinician’s Perspective**

**Chairs: Andrew Arai; Bethesda, USA
 Frank Rademakers; Leuven, Belgium**

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| 11:00 – 11:15 | LV non-compaction: are we over- or under-reporting LVNC? Steffen Petersen (London, United Kingdom) |
| 11:15 – 11:30 | LGE in the RV – does it exist and how is it best imaged? Martina Perazzolo (Padua, Italy) Matthias Friedrich (Calgary, Canada) |

12.00 – 13.00 Session XVI – Coronary Artery Disease – The Expanding Role of CMR

**Chairs: Massimo Lombardi; Pisa, Italy
 Herbert Frank; Tulln, Austria**

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| 12:00 – 12:15 | Epidemiology of coronary artery disease and consequences for management Frank Rademakers (Leuven, Belgium) |
| 12:15 – 12:25 | Characterization of myocardium – improving perfusion and viability CMR Sven Plein (Leeds, United Kingdom) |
| 12:25 – 12:40 | Patients with suspected CAD: how and when to integrate CMR into management Jürg Schwitter (Lausanne, Switzerland) |
| 12:40 – 12:55 | Management of acute chest pain: to use CMR – CT – invasive – or all of them? Andrew Arai (Bethesda, USA) |

**13.00 – 14.00 Best Abstract Award & Closing Remarks
 Massimo Lombardi, Chair EuroCMR 2010**

14.30-16.30 CMR Examination
 Oliver Bruder / Steffen Petersen / Sven Plein